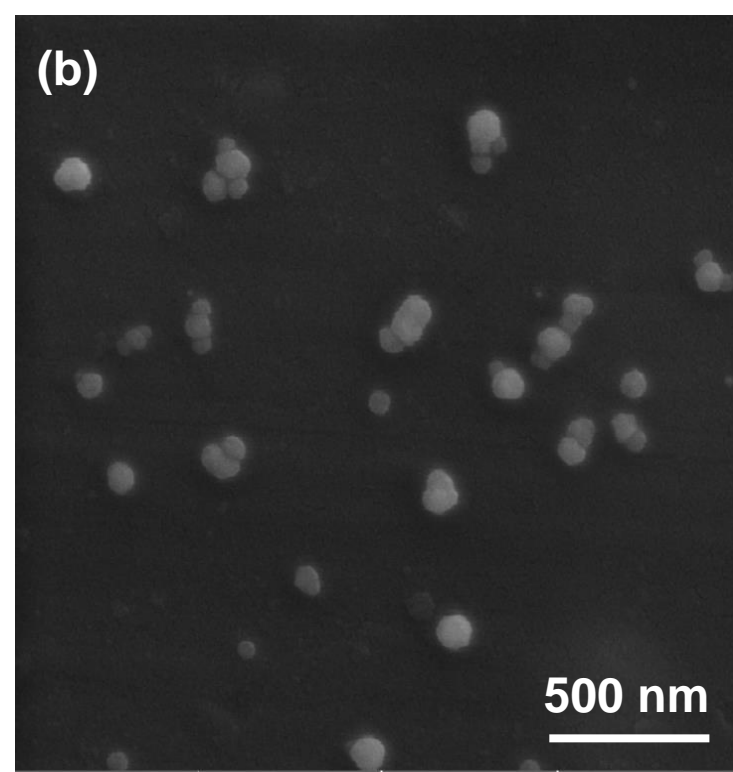
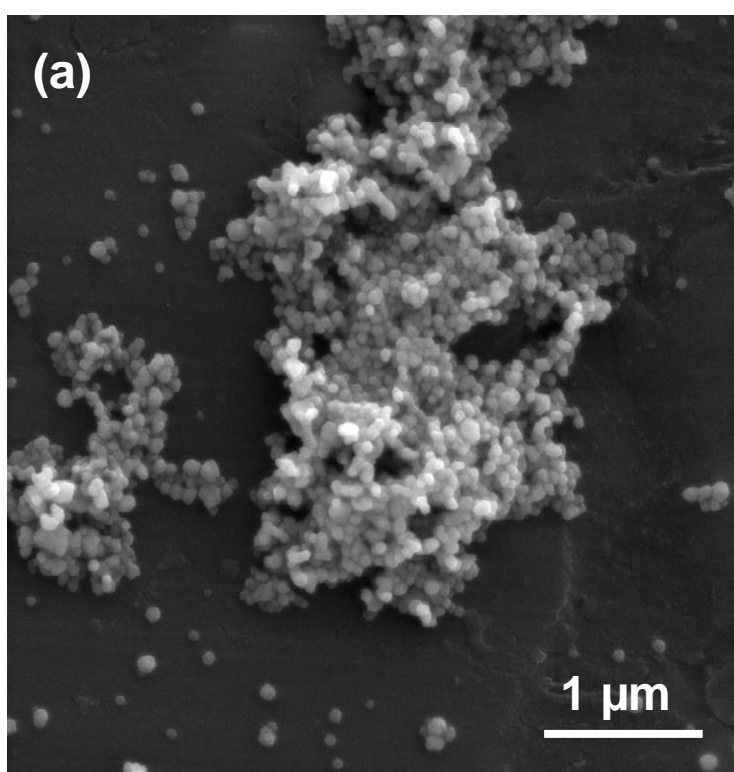


Silver nanoparticles SNP5

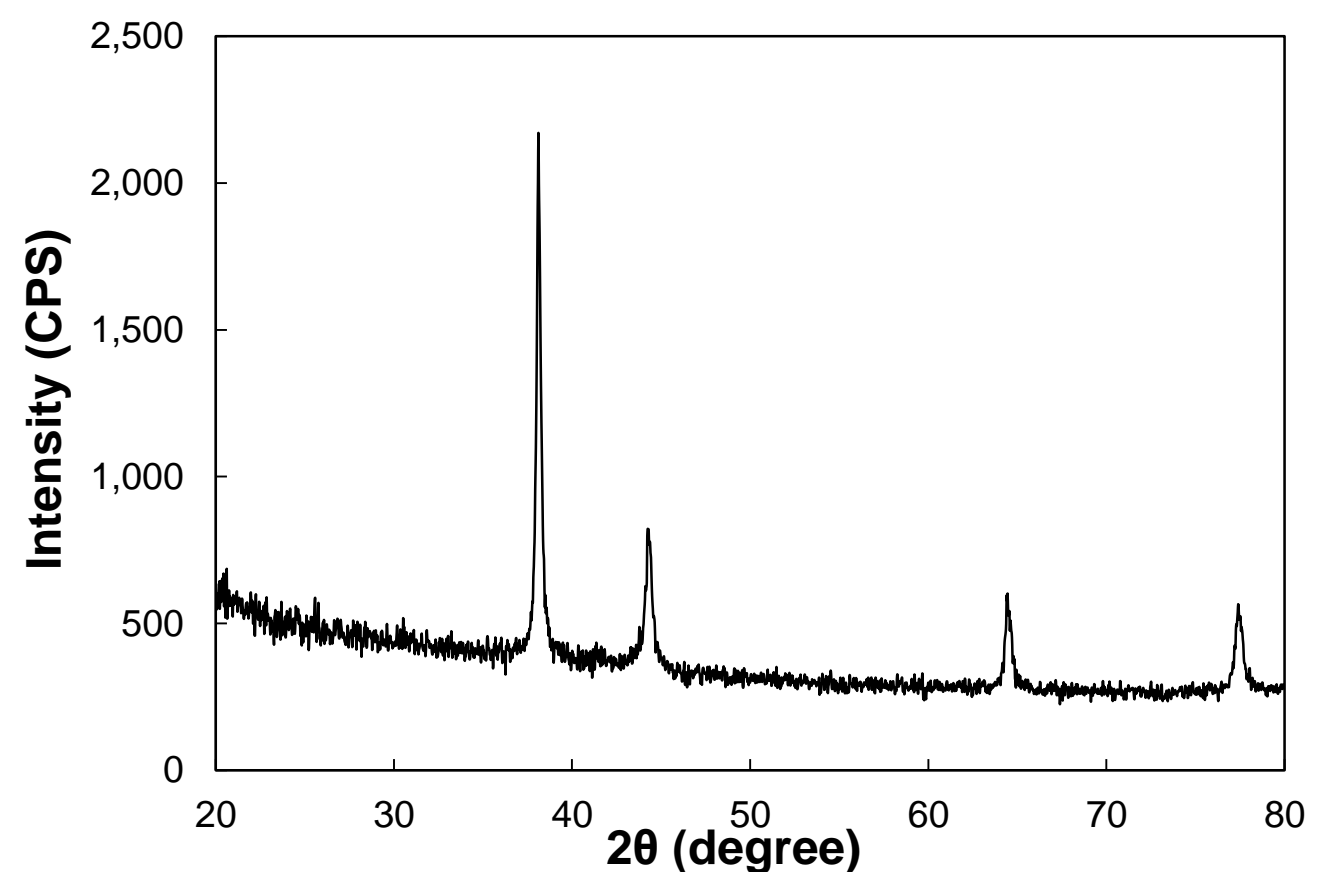
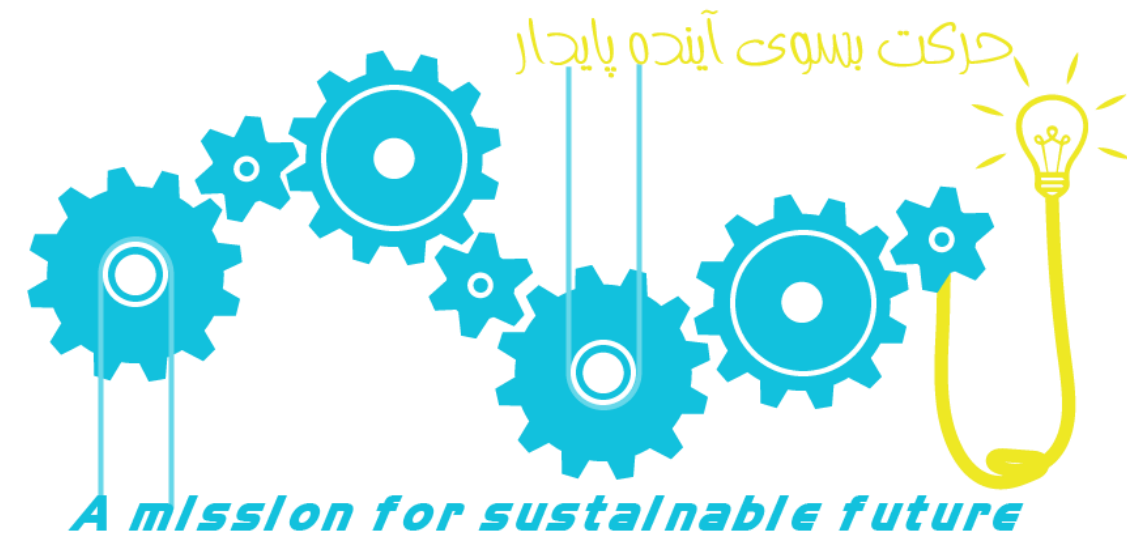
The area of nanoparticles research has witnessed tremendous growth specially nanoparticles of noble metals which are a great interest today. Silver nanoparticles, generally smaller than 100 nm and contain 15–20,000 silver atoms, have distinct physical, chemical and biological properties compared to the bulk material. The optical, thermal, and catalytic properties of silver nanoparticles are strongly influenced by their size and shape. This nanoparticles have grate application in microelectronics and also, become the most widely used sterilizing nanomaterials in consuming and medical products due to its antimicrobial ability.

Advantages of SNP5

- High Purity
- Uniform size and shape
- Particle size 10-30 nm



The FESEM images show silver nanoparticles with spherical shape and diameter less than 50 nm.



The X-ray diffraction measurement indicates four characteristic peak at 2θ values of 38.331, 44.488, 64.644, 77.568 ,and 81.751 degree which demonstrate FCC structure of silver nanoparticles.